Recombinant Human CUL1 protein, His-tagged

Cat. No. CUL1-26258TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CUL1(1-410aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-410 a.a.
Description	Cullin1, also known CuL1, is a core component of multiple cullin-RING-based SCF (SKP1-CuL1-F-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, it serves as a rigid scaffold that organizes the SKP1-F-box protein and RBX1 subunits. Cullin1 may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl
Molecular Mass	49.4 kDa (430aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSSTRSQNPH GLKQIGLDQI WDDLRAGIQQ VYTRQSMAKS RYMELYTHVY NYCTSVHQSN QARGAGVPPSKSKKGQTPGG AQFVGLELYK RLKEFLKNYL TNLLKDGEDL MDESVLKFYT QQWEDYRFSS KVLNGICAYL NRHWVRRECD EGRKGIYEIYSLALVTWRDC LFRPLNKQVT

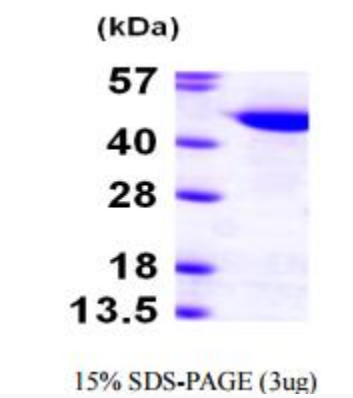
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	NAVLKLIEKE RNGETINTRL ISGVVQSYVE LGLNEDDAFA KGPTLTVYKE SFESQFLADT ERFYTRESTEFLQQNPVTEY MKKAEARLLE EQRRVQVYLH ESTQDELARK CEQVLIEKHL EIFHTEFQNL LDADKNEDLG RMYNLVSRIQ DGLGELKKLL ETHIHNQGLA AIEKCGEAAL NDPKMYVQTV LDVHKKYNAL VMSAFNNDAG FVAALDKACG RFINNNAVTK
Purity	> 95% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CUL1 cullin 1 [Homo sapiens]
Official Symbol	CUL1
Synonyms	CUL1; cullin 1; cullin-1; CUL-1; MGC149834; MGC149835;
Gene ID	8454
mRNA Refseq	NM_003592
Protein Refseq	NP_003583
MIM	603134

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UniProt ID	Q13616
Chromosome Location	7q36.1
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem;
Function	protein binding; ubiquitin protein ligase binding;
	 15% SDS-PAGE (3ug)

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